# MA2Z377 (MA377)

## Silicon epitaxial planar type

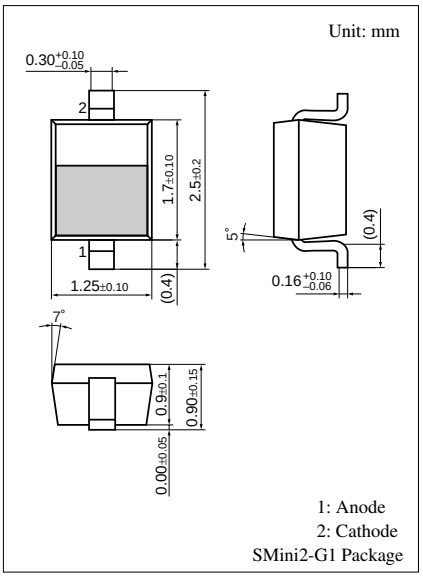
For VCO of UHF band radio

### ■ Features

- S-Mini type package, allowing downsizing of equipment and automatic insertion through the taping package

### ■ Absolute Maximum Ratings $T_a = 25°C$

| Parameter | Symbol | Rating | Unit |
|---|---|---|---|
| Reverse voltage (DC) | $V_R$ | 12 | V |
| Forward current (DC) | $I_F$ | 20 | mA |
| Junction temperature | $T_j$ | 150 | °C |
| Storage temperature | $T_{stg}$ | −55 to +150 | °C |




Marking Symbol: 7D

### ■ Electrical Characteristics $T_a = 25°C$

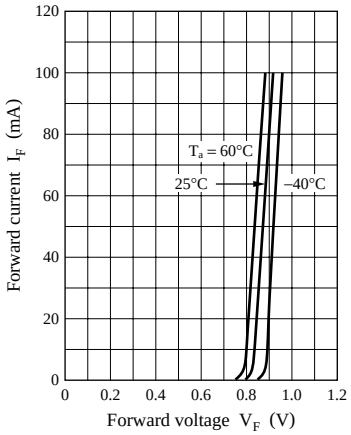
| Parameter | Symbol | Conditions | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|
| Reverse current (DC) | $I_R$ | $V_R$ = 12 V | | | 10 | nA |
| Diode capacitance | $C_{D(2V)}$ | $V_R$ = 2 V, f = 1 MHz | 2.80 | | 3.40 | pF |
| | $C_{D(10V)}$ | $V_R$ = 10 V, f = 1MHz | 1.10 | | 1.50 | |
| Capacitance ratio | $C_{D(2V)}/C_{D(10V)}$ | | 2.20 | | 2.80 | — |
| Series resistance * | $r_D$ | $V_R$ = 1 V, f = 470 MHz | | 0.40 | 0.60 | Ω |

Note) 1. Rated input/output frequency: 470 MHz

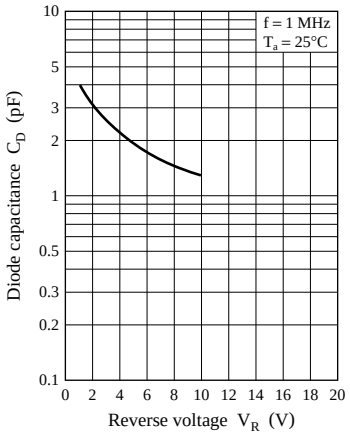
2. *: Measuring instrument; YHP MODEL 4191A RF IMPEDANCE ANALYZER

Note) The part number in the parenthesis shows conventional part number.

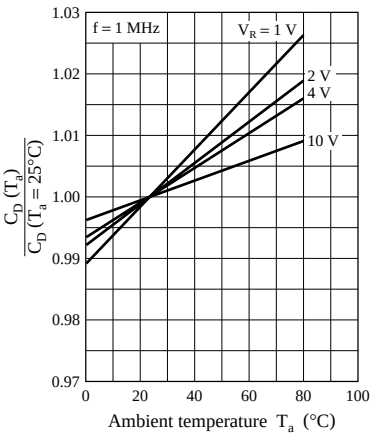
$I_F$ — $V_F$



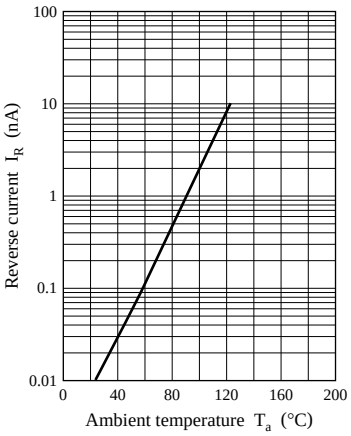

$C_D$ — $V_R$




$C_D$ — $T_a$




$I_R$ — $T_a$



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